

9/1  
13/48

FIG. 1

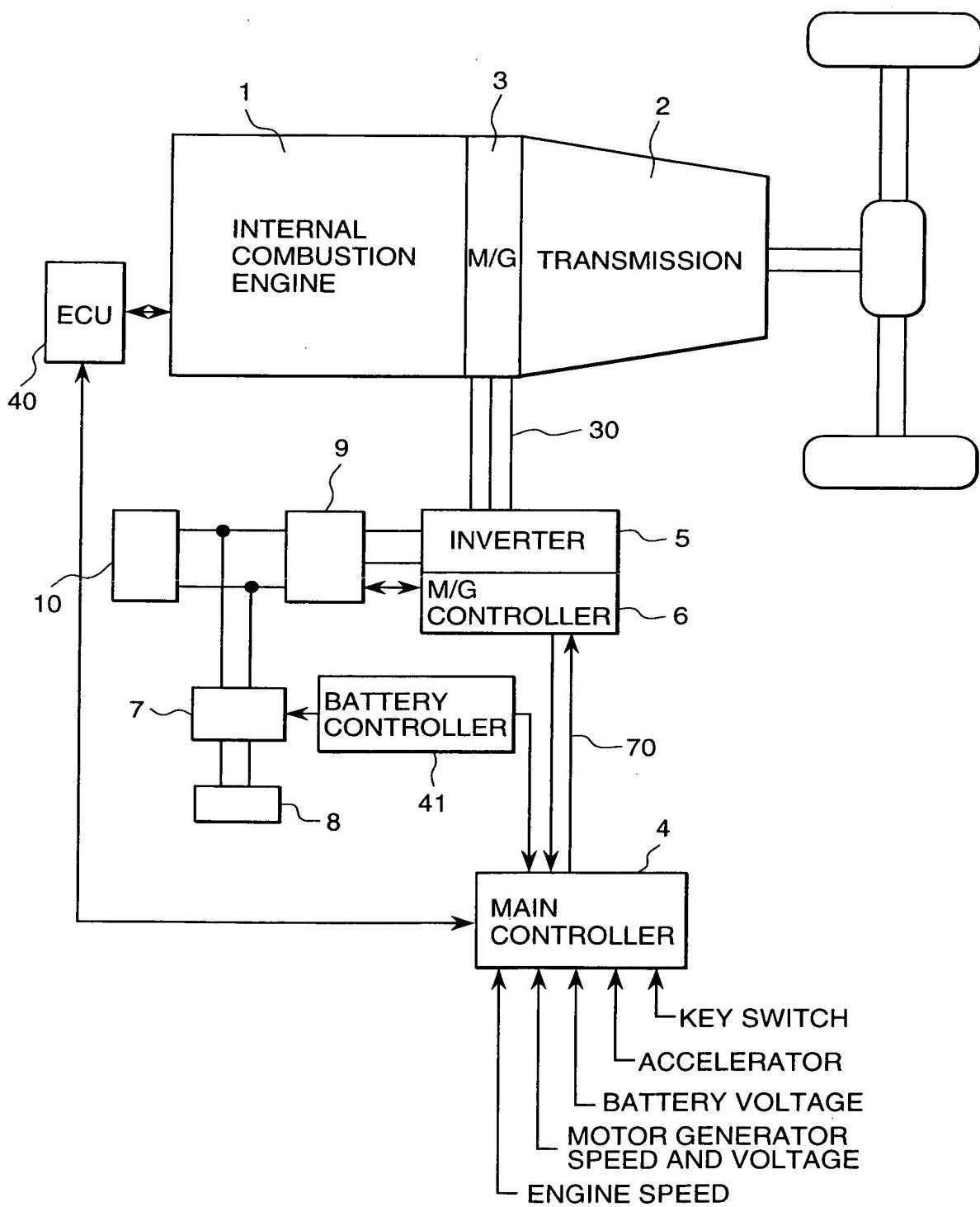


FIG. 2

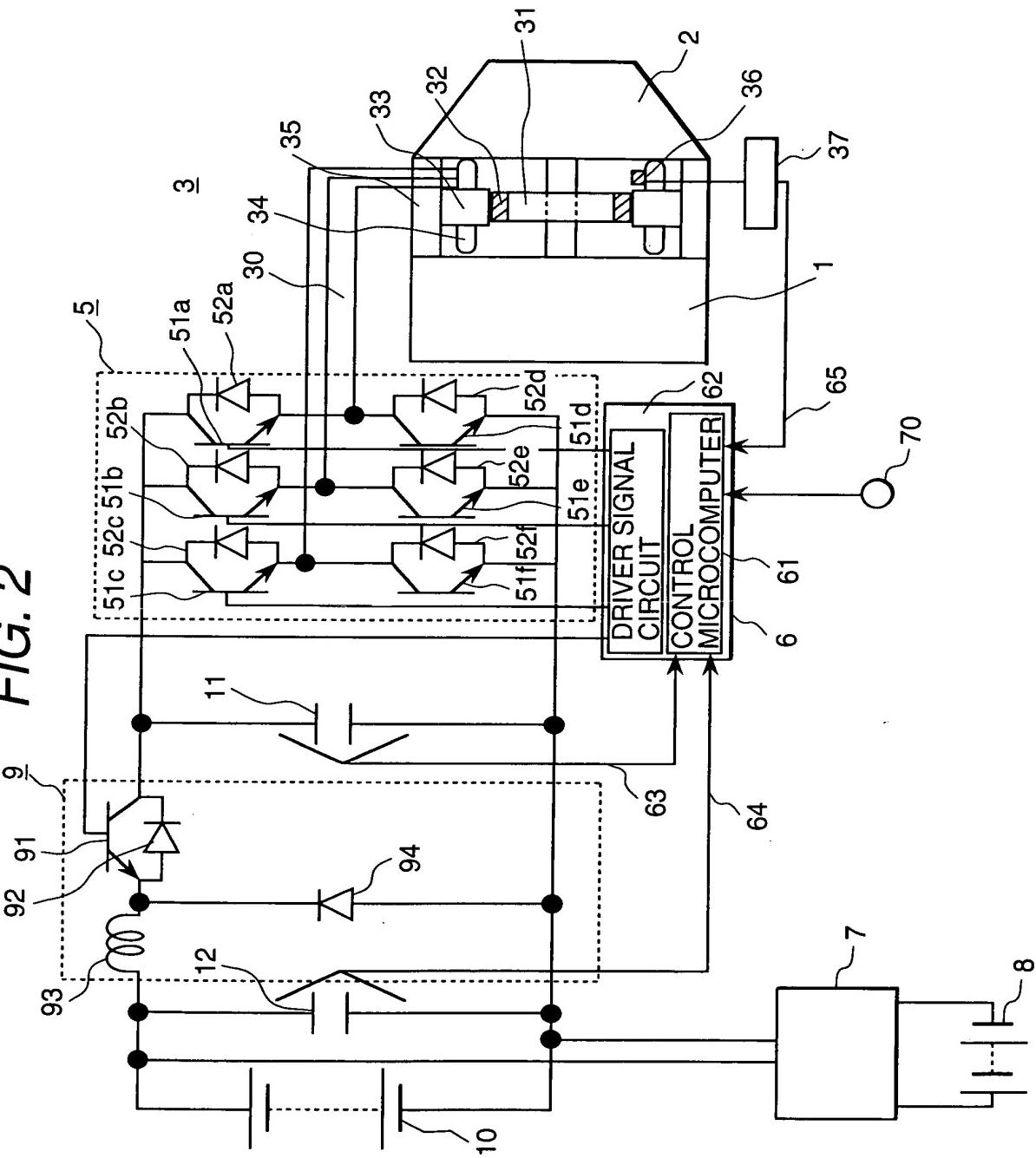


FIG. 3

OPERATION MODE	START OF INTERNAL COMBUSTION ENGINE	TORQUE ASSIST FOR INTERNAL COMBUSTION ENGINE	POWER GENERATION
CONTROL	(STEP-UP CHOPPER)+ STRONG MAGNETIC FIELD	(STEP-UP CHOPPER)+ STRONG MAGNETIC FIELD WEAK MAGNETIC FIELD	STEP-DOWN CHOPPER+ WEAK MAGNETIC FIELD

FIG. 5

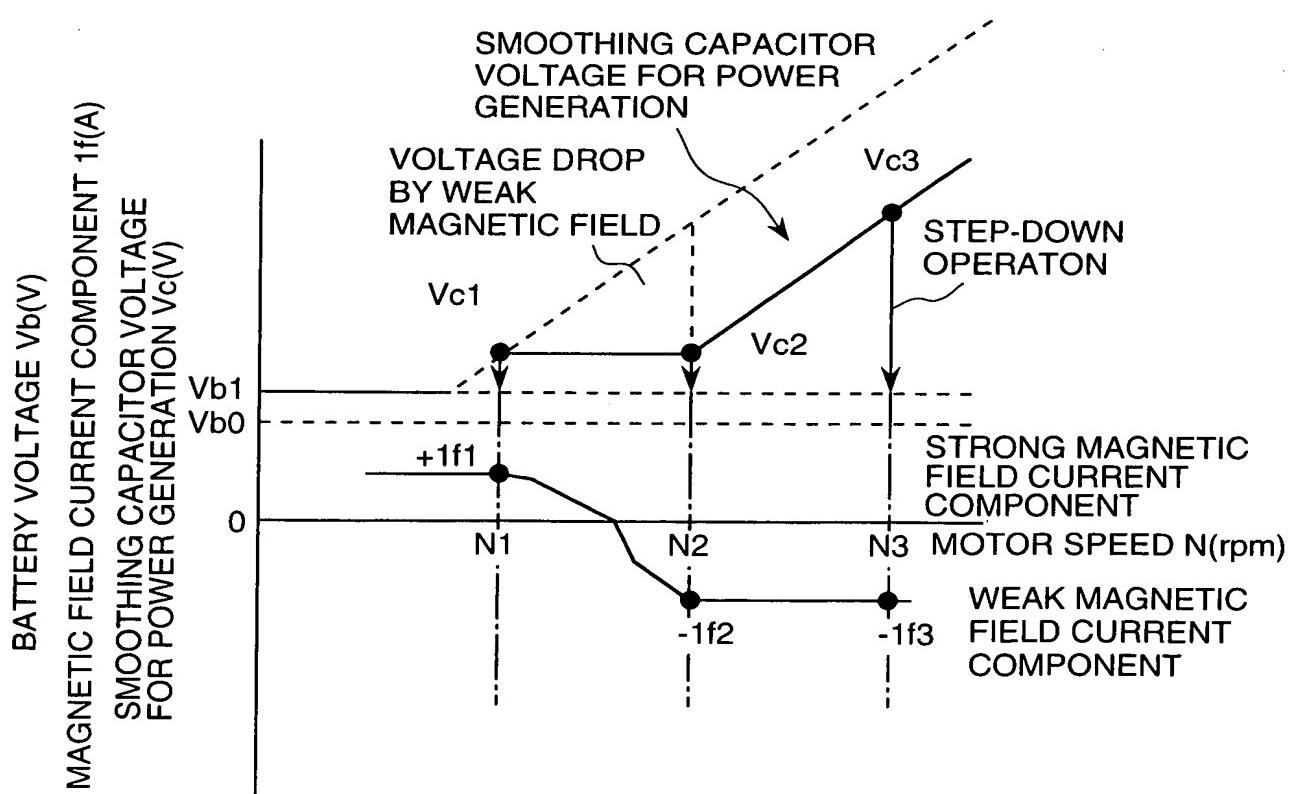
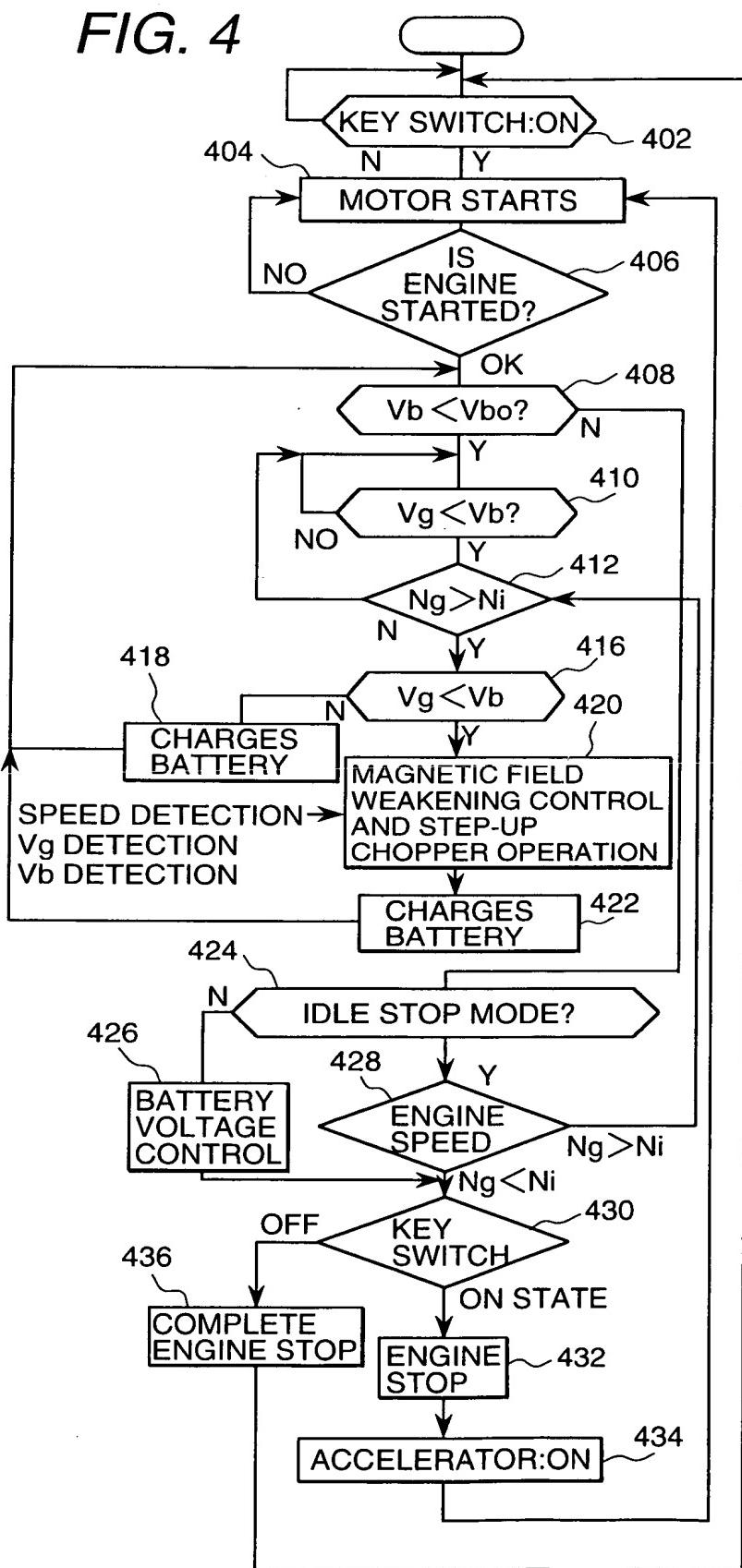


FIG. 4



ENGINE SPEED( $Ng$ )  
IDLING SPEED( $N_i$ )  
Vg:POWER GENERATION  
VOLTAGE  
Vb:BATTERY CHARGING  
VOLTAGE

5 / 9

FIG. 6

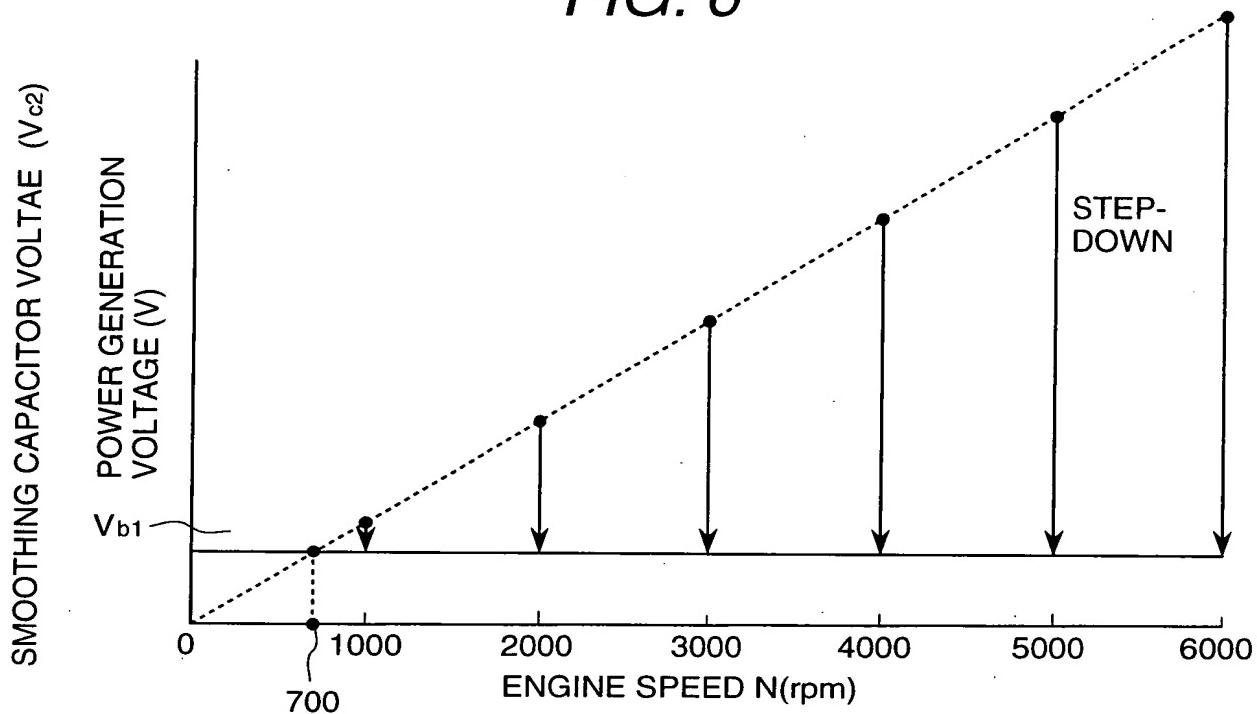


FIG. 7

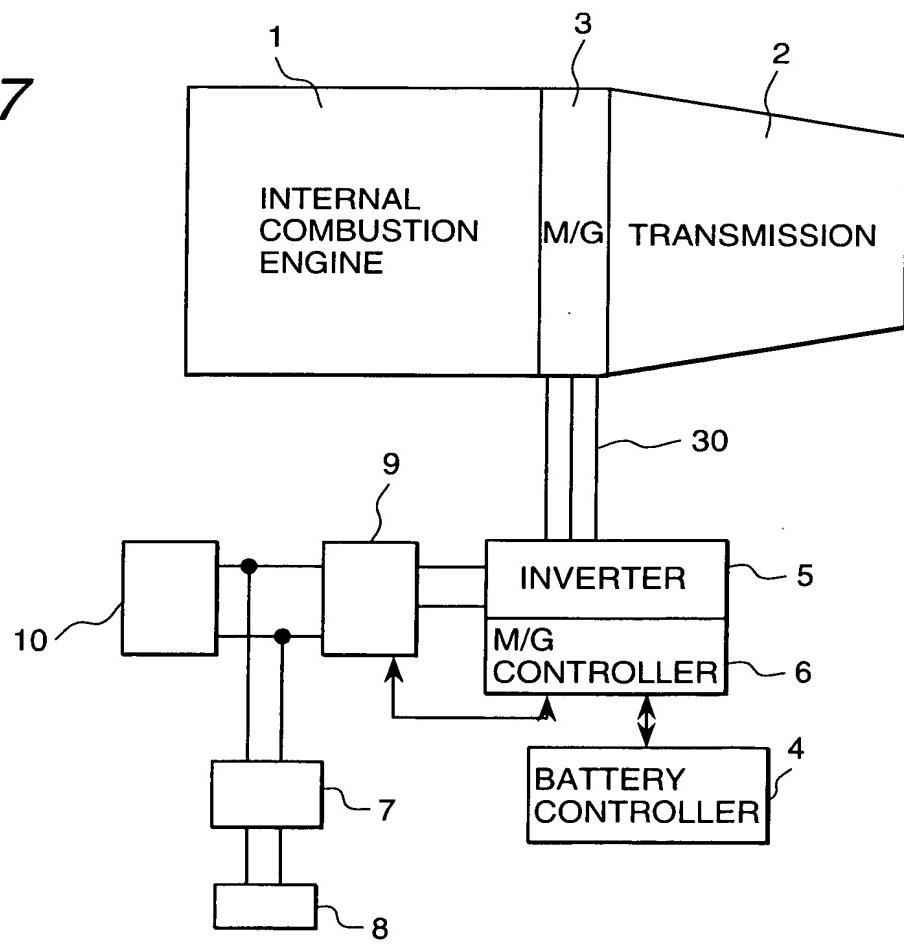
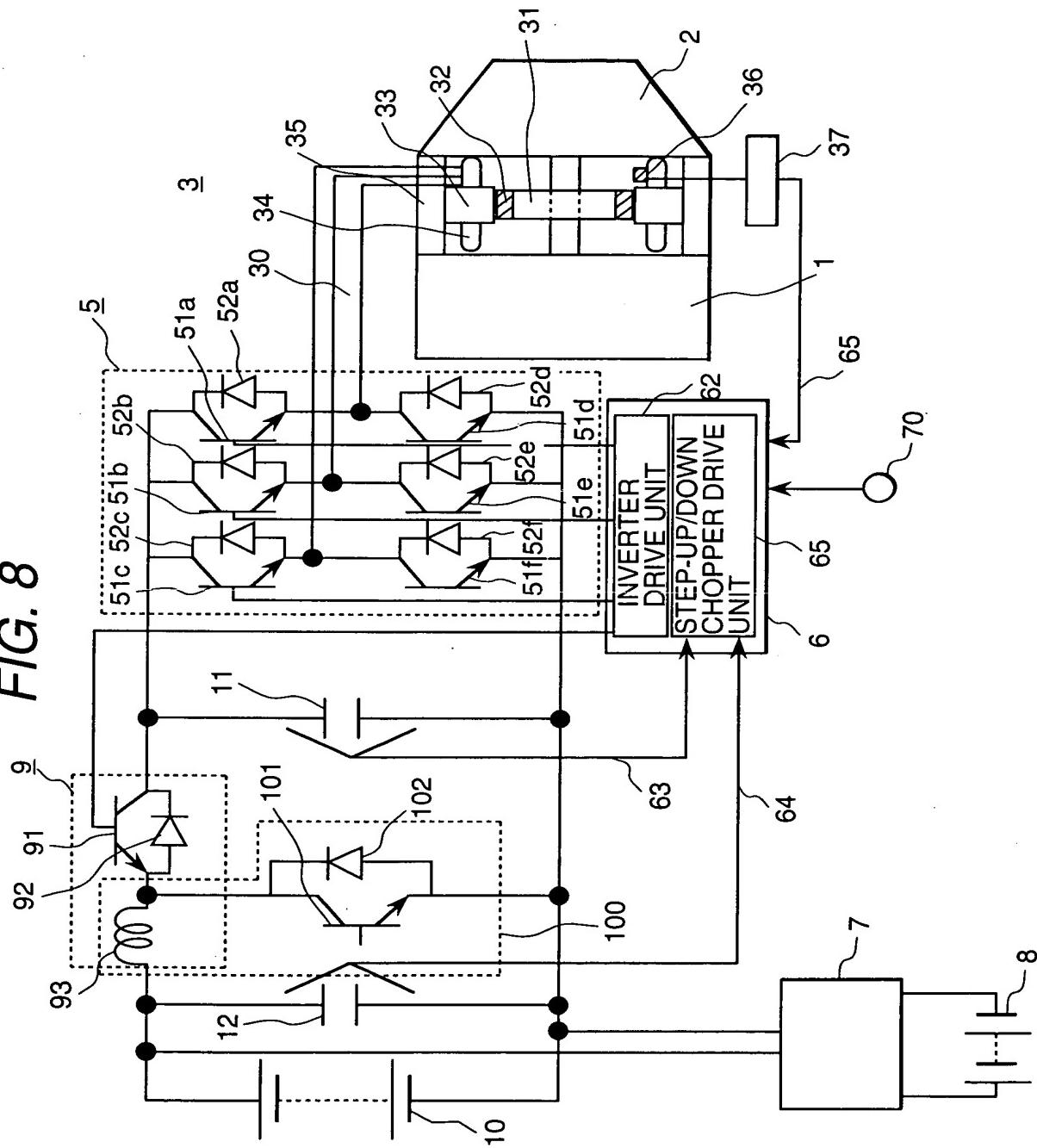


FIG. 8



7 / 9

FIG. 9

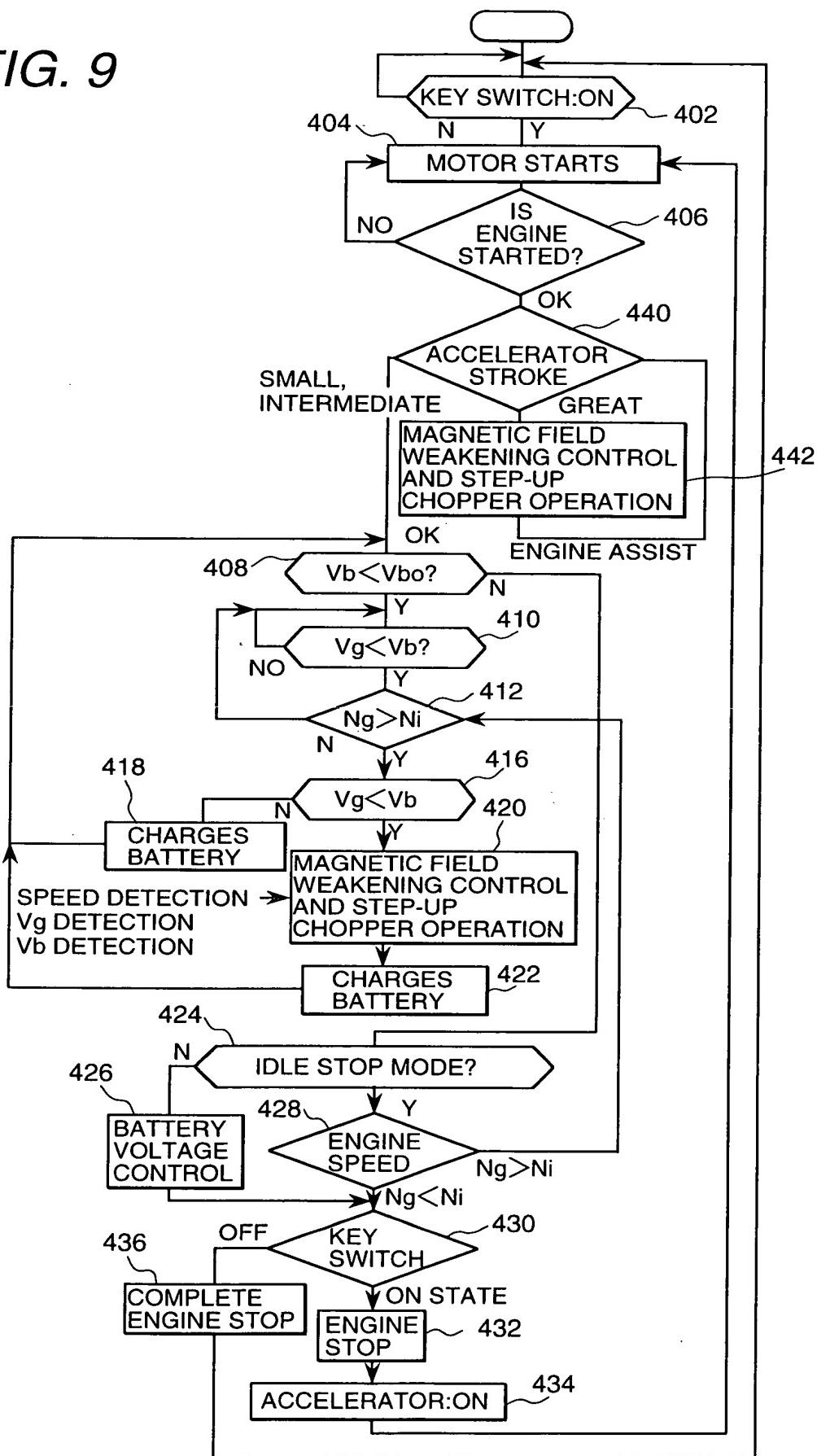


FIG. 10

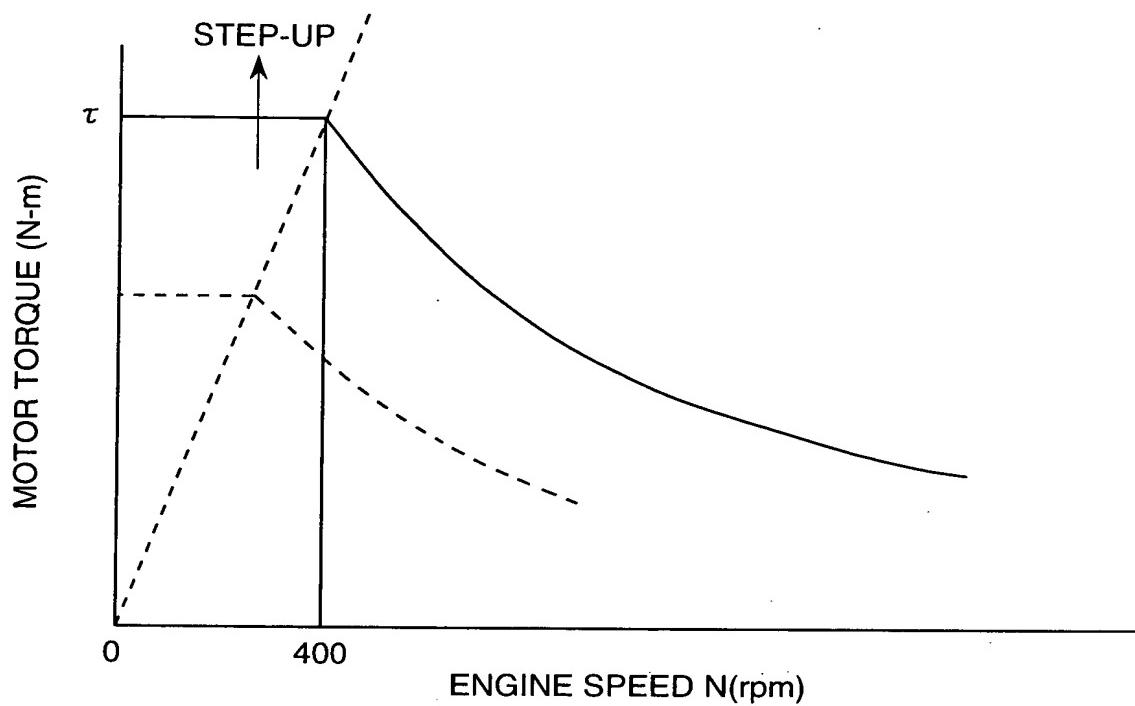
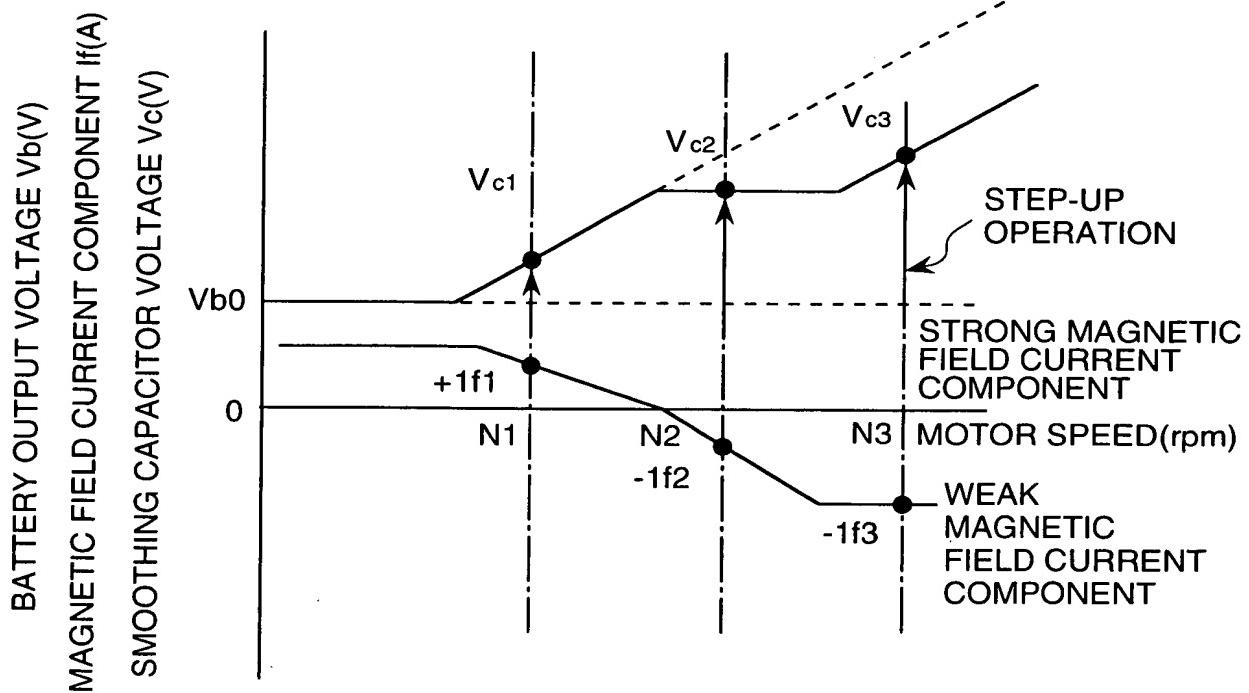


FIG. 11



9 / 9

FIG. 12(a)

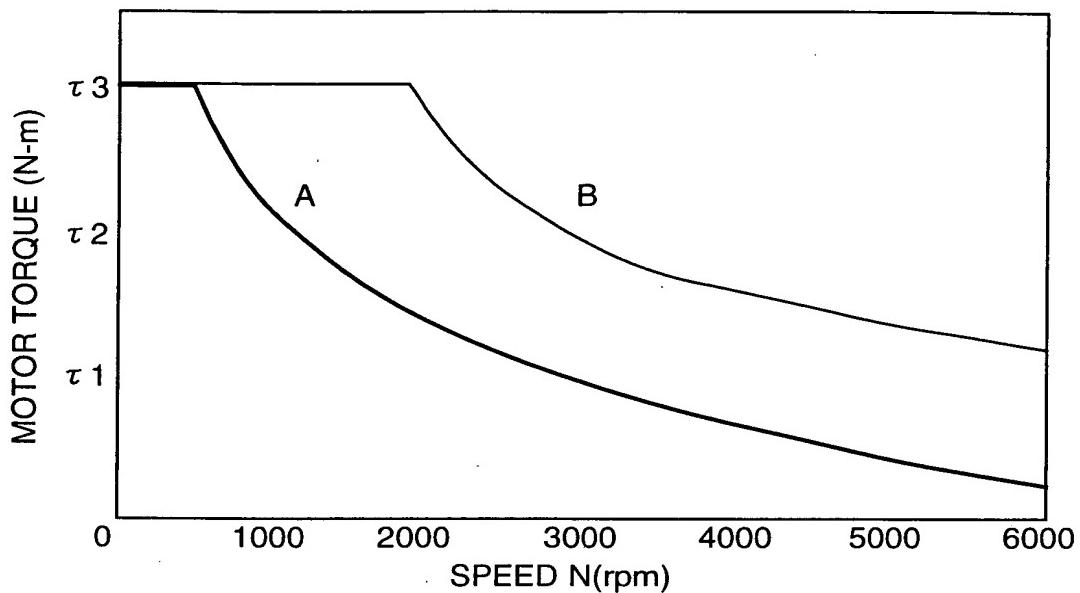


FIG. 12(b)

